

1) draw line AC with $C = (c,b)$ & $A = (-a,b)$ for $a,b,c > 0$

2) C_1 = intersect hyperbola & ray OC

3) A_1 = intersect horizontal ray from C_1 & ray OA

4) X_2 = intersect hyperbola & circle with diameter $A_1 C_1$

5) X_1 = intersect vertical line through X_2 & diameter $A_1 C_1$

6) $X = (x,b)$ = intersect ray OX_1 and line AC

$$p(x) = x^3 + a x^2 + b^2 x - b^2 c = 0$$

O